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PHOTOGRAPHIC INTERPRETATION REPORT

# RESEARCH AND DEVELOPMENT RADAR FACILITY 2 SARY-SHAGAN ANTIMISSILE TEST CENTER USSR

DECEMBER 1967 COPY 116 24 PAGES

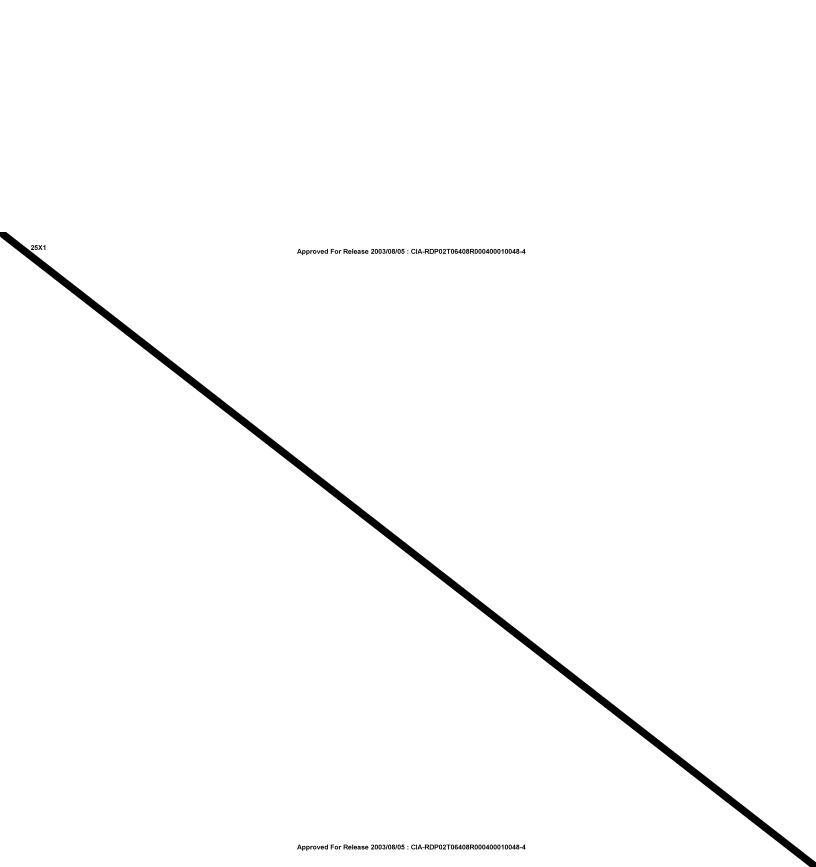
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PHOTOGRAPHIC INTERPRETATION REPORT

## RESEARCH AND DEVELOPMENT RADAR FACILITY 2 SARY-SHAGAN ANTIMISSILE TEST CENTER, USSR

DECEMBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

TOP SECRET
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## **PREFACE**

This report is in response to DIA Requirement 27-8 (ST) (NPIC Project 11552/68) requesting configuration details of 2 new antennas under construction in 1966 and 1967 at Sary-Shagan R&D Radar Facility 2. It will serve as an interim report until such time as the antennas are completed. At that time a more comprehensive report, with rectified line drawings and a more complete chronological account of all facilities, will be produced in response to CIA Requirement C-RR5-82,832 (NPIC Project 11023AK/66).

82,832 (NPIC Project 11023AK/66).
This report also constitutes an updating of NPIC/R-294/63, 1/ which was based
on photography of the HEN ROOST antennas from coverage of
through photography of Since that time numerous small-
scale photographic missions have covered the site generally of only fair inter-
pretability. Since it has been covered by large-scale photograph
4 times.
Perspectives and line drawings in the report will be limited to the antennas and
to the adjacent operational areas. For comparative purposes tables are included
which summarize pertinent facts concerning the 2 new antennas at R&D Radan
Facility 2, and the R&D HEN HOUSE at Sary-Shagan Antimissile Test Center
(SSATC), deployed dual HEN HOUSEs, and the DOG HOUSE at Naro-Fominsk
Mensuration presented in this report from
was accomplished with estimated accuracy as follows: horizontal dimensions ±
feet or ±5 percent whichever is greater; vertical dimensions
whichever is greater unless otherwise indicated; boresight elevation angles of the
new antennas ±5 degrees; azimuths of the new antennas azimuths o

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25X1 25X1 SUMMARY

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The R&D Radar Facility 2, SSATC (Figures 1 and 2), currently consists of 2 antennas under construction, a newly identified probable\* electronics area, a housing and support area, and a recently constructed support area. This facility, which was first observed on partial coverage through the clouds in \_\_\_\_\_\_ and in its entirety for the first time on \_\_\_\_\_\_ did not appear on available small-scale coverage to change significantly in operational or support areas from that time until mid-1965. From mid-1965 until the latest large-scale coverage of \_\_\_\_\_\_ an extensive construction effort has been noted at the site.

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The 2 antennas observed at HEN ROOST Antennas North and South were completely dismantled by and on the site are being constructed 2 new antennas. By an A-frame structure for the new antenna could be seen under construction at HEN ROOST Antenna South. By the paneling was almost completely installed. Boresight azimuth of this screen, which is shorter and higher than the original screen, is approximately Erection of the A-frame antenna structure was first observed at HEN ROOST Antenna North in Although the antenna face has not yet been emplaced -- and dimensions are therefore not obtainable -- the A-frame structure is higher and somewhat shorter than the original screen. To date, supporting facilities in the

operational areas at both sites remain essentially unchanged except for the construction of a large new control building at each site.

A Probable Electronics Area south of the Housing and Support Area, although constructed in 1962, could only recently be identified as such. The apparent lack of customary control buildings, facility changes noted from time to time, and the general layour would tend to give the impression of a feasibility area for component testing. Of interest is a suspect\* antenna, unusual in appearance, first observed under construction in and situated just west of the Probable Electronics Area.

During 1966/1967 new facilities were added to the previously rather dormant Housing and Support Area, including \*See footnote page 3.

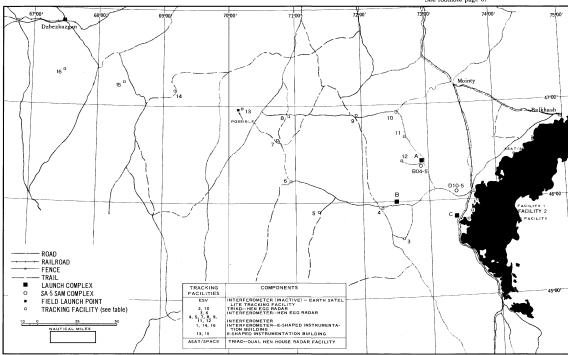


FIGURE 1. SARY-SHAGAN ANTIMISSILE TEST CENTER (SSATC), USSR.

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Date dismantled Presence of clutter

screen

510'	25° (±5°)"
	25° (±5°)"
	25° (±5°)"
	25° (±5°)"
	25° (±5°)"
	25° (±5°)"
1 1	
Yes	None
590'	
ucture.	
510'	
15'	
**	25° (±5°)
	590' "ucture. 510'

construction of a new possible  $\!\!\!\!\!\!\!^*$  rectifier/support building at the transformer substation. A new Support Area was constructed nearby in 1967, presumably associated with R&D Radar Facility 2.

None

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 $\it Table~2.~Summary~of~HEN~HOUSE-~and~DOG~HOUSE-Type~Activity,~USSR$ 

	Facility	Length of Antenna Structure (feet)	Boresight Azimuth (degrees)	Boresight Elevation Angle (degrees)	Negation	First Observed	Current Status (external) (Sep 67)
SARY-SHAGAN I	R & D RADAR FACILITY 1						
HEN HOUS	SE.						Complete
BILLBOAR							Complete
	ASAT/SPACE TRACKING						
RADAR FACIL							
	North	885					Complete
Area A	2 1	0.0%					6 1
	South North	885 810					Complete
Area B	North	810					Complete externally
Alea D	South	810					Complete externally
	North	810 approx					In late construction stage
Area C	Hotel	oro approx					In take consulterion stage
Alou C	South	810 approx					In late construction stage
	North	885					Complete externally
Area D							,
	South	885					Complete externally
MISHELEVKA AS	SAT/SPACE TRACKING						
RADAR FACIL	ITY						
	North	890					Complete
Area A							
	South	890					Complete
	North	800					In mid-construction stage
Area B							
	South North	800					In mid-construction stage
Area C	North						In mid-construction stage
Area C	South						In mid-construction stage
	North	890					In late construction stage
Area D	1101011	000					211 1400 0011011 011011 0110
	South	890					In late construction stage
OLENEGORSK D	UAL HEN HOUSE						
	North/South	890					Complete
	Northeast/Southwest	890					Complete
SKRUNDA DUAL	HEN HOUSE FACILITY						
	Northeast/Southwest	890					Complete
	North/South	890					Complete
NARO-FOMINSK RADAR FACILI	ABM/SPACE TRACKING						
Operational							
	North-northwest	400					Essentially complete
	South-southeast	400					In very late construction
							stage
Operational							
	North-northwest	760 with					Essentially complete ex-
		2 prob					ternally
		370'					
		antennas					
	0 11 11	700 111					T
	South-southeast	760 with					In very late construction stage
		2 prob 370'					stage
		antennas					
		antennas	ı				

- 3 -

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<sup>\*</sup>The reader is reminded that, as used in NPIC reports, the following definitions are standardized by the Glossary of NPIC Terminology:
SUSPECT (Susp) - Evidence is insufficient to permit designation of a function with any degree of certainty, but photography or other information provides some indications of what the function may be.
POSSBLE (Poss) - Evidence indicates that the designated function is reasonable and more likely than other functions considered.
PROBABLE (Prob) - Evidence for the designated function is strong and other functions appear quite doubtful.

25X<sub>1</sub> TOP SECRET Approved For Release 2003/08/05 : CIA-RDP02 106408R000400010048-4 25X1 25X1 ORIGINAL CONTROL BUILDING clutter screens at HEN ROOST Antenna North had been dismantled, with only the footings remaining. This was the first large-scale coverage of the site since 25X1 25X1 25X1 except for the removal 25X1 of antenna components and structural members. No evidence is observed of construction of the new antenna struc-25X1 of the new antenna structure under erec-25X1 25X1 tion and observed for the first time on Note that the northern supports are higher than the FIGURE 3. ANTENNA NORTH, R&D RADAR FACILITY 2, SSATC. Approved For Release 2003/08/05 : CIA-RDP02T06408R000400010048-4 TOP SECRET 25X1

25X1 Approved For ROPS (1907) : CIA-RDP02T06408R000400010048-4 SCHEMATIC OF NEW ANTENNA (END VIEW) 25X1 25X1 25X1 PLAN VIEW **2**5×1 25X1 25X1 25X1 25X1 25X1 FIGURE 5. PERSPECTIVE VIEW OF ANTENNA NORTH, R&D RADAR FACILITY 2, SSATC. - 6 -TOP SECRET Approved For Release 2003/08/0§: CIA-RDP02T06408R000409010048-4

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**25**×1

25X1

### HEN ROOST ANTENNA NORTH

Location -- This antenna (Figures 3, 4, and 5) is situated at 45-56-47N 73-37-55E, approximately north of HEN ROOST Antenna South. Reflector and Clutter Screens -- The reflector screen HEN ROOST Antenna North when first observed on photography of appeared complete or virtually complete, measuring 510 feet long by 60 feet high, with a boresight azimuth of As viewed on small-scale photography from that time until its removal prior to the reflector screen showed no significant change. The clutter screen, which existed in was located west of and parallel to the reflector screen and measured 590 feet long and This screen was apparently unchanged through coverage of It appeared to be under dismantlement by with materials observed at the site, presumably structural members. Evidence of activity was apparent at HEN ROOST when a dark new ground Antenna North on scar, probably a road or trail, appeared in the snow generally from the north end of the reflector screen, and extended past the clutter screen to the road just beyond. This road/ trail was visible through when activity was also observed just west of the reflector screen. Photography revealed the first direct evidence of the dismantling of the screen. One long dark pattern and a number of smaller patterns, some of which were probably crates, could be seen between the reflector and clutter screens. Although the photography was of small scale and of only fair interpretability, it appeared that a possible crane was positioned just west of the south portion of the reflector screen and that dismantlement of that portion of the screen was beginning. The dismantling and crating process continued from when the reflector screen appeared to be down and most of the crates had been removed. (Figure 3A), confirmed the removal of both screens, with only the footings remaining. Two rows of footings with a interval between footings were observed at the site of the former reflector screen. Clutter screen footings were arranged in 2 apart, with footings spaced at intervals. Minor activity was observed on just south of the

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control building. Large-scale coverage of
(Figure 3B) revealed this area to be essentially unchanged
since with no evidence of the construction of a
screen, as was the case at HEN ROOST Antenna South. Al-
hough many crates were removed during that period, some
remained at the site. On apparent con-
struction activity was noted at the site of the former reflector
screen and just west of it. The following mission
revealed an A-frame type of construction to
be in progress, with the structural supports under construc-
ion from south to north, and a probable crane alongside the
north portion. By one of the 2 small buildings at
he south end of the former reflector screen had been re-
moved. Construction continued, with an A-frame structure
observed on (Figure 3C). Although considerable
progress was made between
he latest and best large-scale coverage of the site (Figures
4 and 5) no evidence was yet revealed of an antenna face.
The A-frame antenna structure is approximately
ong and has a boresight azimuth of approximately
legrees. It is supported from the east by 13 main structural
supports the 9 to the south having a height of the
second and third from the north a height of The
northernmost and fourth from the north appear to fall some-
where between these 2 heights. All 12 sections comprising
he structure appear to date to consist of an intricate
pattern of heavily trussed horizontal and vertical members
n varying degrees of preliminary construction except for
he third section from the north where a more advanced
stage is observed. Thirteen evenly spaced horizontal mem-
pers or tiers can be seen here which appear broader,
ighter-toned, and have apparently been emplaced on the
nitial framework of the structure. Atall structure occupies
he northernmost section; whether an integral part of the
antenna structure or a covered construction elevator cannot
be determined. Just west of the antenna structure is a prob-
able assembly jig, presumably used for assembly of the
antenna panels. The boresight elevation angle of the A-frame
structure is approximately 25 degrees. Spacing between
Cootings is Certain footings of the former reflector
screen can be seen in disuse, adjacent to the new supports.
Just west of the footings for the former clutter screen
numerous crates and possible truss members have appeared
since Additional crates have also appeared

west of the A-fra	me antenna stru	cture.	A crane and 2 power
shovels are obse	rved in the are	a. Sino	ce new
trenching is note	ed just inside	and p	paralleling the south
fenceline and the	second small s	tructu	re has been removed
at the south end o	f the A-frame a	intenna	structure.
Control Build	ings The co	ntrol b	uilding which existed
in		and	d appears unchanged
externally as of			The large support

building constructed in 1963 east of and
paralleling the control building, also appears unchanged
externally in The microwave tower which
was observed in just east of the control building
remained until sometime between
when it was removed. Footings for a new control building
were first observed on photography of
between the old control building and the antenna structure
under construction. At that time footings occupied an area
approximately
Support Facilities Support facilities generally north

of the control building consist of 6 small structures and in the northwest corner 1 probable van-mounted antenna and a second cable-connected van nearby. Little change is apparent here since except for the construction of 2 structures from Between two very small buildings were added along the east site boundary.

HEN ROOST ANTENNA SOUTH

Location -- This antenna (Figures 6, 7, and 8) is situated at 45-56-10N 73-37-45E, approximately south of HEN ROOST Antenna North. HEN ROOST Antenna South is offset to the west 1.785 feet.

Table 3. New Antenna South, R&D Radar Facility 2, SSATC

Latitude	Longitude
45-58-09N	71-14-21E
45-57-09N	68-50-54E
45-53-08N	66-27-41E
45-46-09N	64-04-56E
45-36-12N	61-42-54E
45-23-20N	59-21-49E
45-07-35N	57-01-55E
44-49-00N	54-43-24E
44-27-39N	52-26-29E
44-03-35N	50-11-19E
43-36-54N	47-58-04E
43-07-40N	45-46-51E
	45-58-09N 45-57-09N 45-53-08N 45-46-09N 45-36-12N 45-23-20N 45-07-35N 44-49-00N 44-27-39N 44-03-35N 43-36-54N

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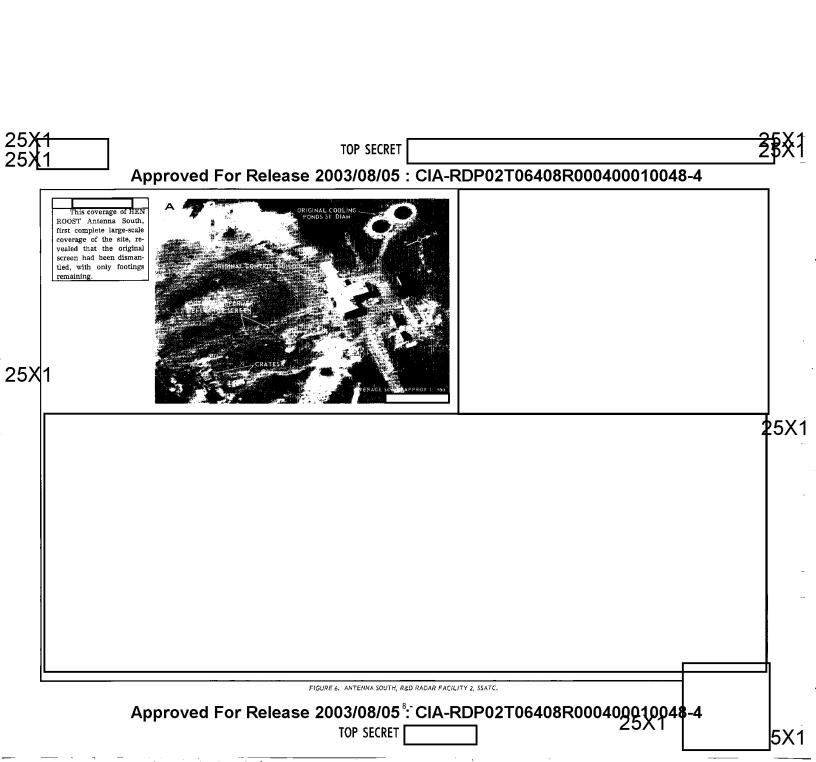
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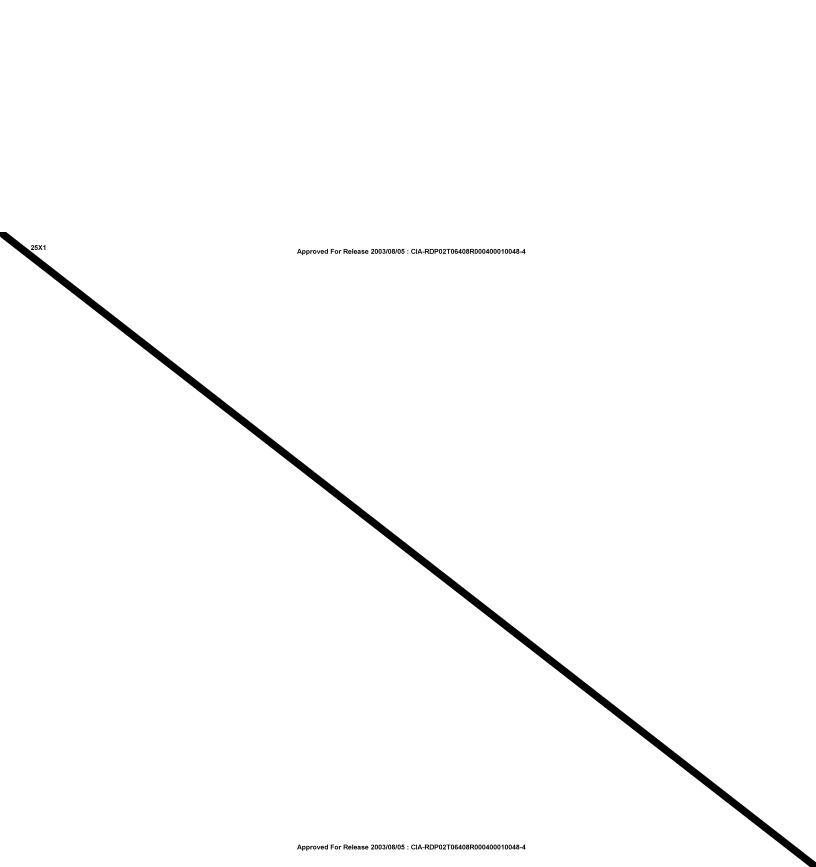
AFGHANISTAN FIGURE 9. PROPAGATION LINE FOR ANTENNA SOUTH, R&D RADAR FACILITY 2, SSATC.

Kuybyshev Semipalatinsk USSR Chelkar CHINA TURKEY SYRIA IRAN JAMMU & KASHMIR IRAQ

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25X1

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feet) of the probable missing panel, with adjacent crane,

25X1

**25**×1

25X1 25X1

25X1

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25X1

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the remaining 4 by

are all that remain.

appear to be under assembly just west of the screen. The

forward edge of the antenna face appears to be about

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from the ground. The antenna face has a poresignt elevation
angle of 25 degrees and has a boresight azimuth o
degrees (Figure 9 and Table 3). Sinceadditional
grading and clearing have taken place to the east and west of
the control building and west of the fenceline providing a
cleared area of approximately feet west of
the screen. A secondary road to the site from the coastal
access road has been widened and improved since
Clutter Screen None.
Control Buildings The T-shaped control building ad-
jacent to the north end of the former reflector screen and
present on first complete coverage of
does not appear to have changed externally from that time
until coverage of The major component
perpendicular to the former screen measures
the northern wing footings
were observed for the new control building between the old
control building and the new screen. To date a 20-foot
separation exists between these footings and the screen.
Considerable construction progress was made from
with indications that the new building
would measure approximately 180 by 80 feet.
Support Facilities in the Operational Area Support
facilities north and south of the reflector screen are rela-
tively few and remain essentially as seen on the first
interpretable small-scale coverage of Those
to the north include 2 cooling ponds (each in diame-
ter), a semiburied structure, a small, 6-sided, probable
environmental shelter and 3 small build-
ings. Two small structures close to the south end of the
screen (1 present as early as remain on
latest coverage of Two small structures
east of the south end of the screen on were
no longer discernible on
Immediate Support Area This area, astride the main
coastal road 1,200 feet east of the HEN ROOST Antenna
South reflector screen, was present at least as early as
it consisted of 7 buildings of

### PROBABLE FLECTRONICS AREA

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This area, just south of the Housing and Support Area,
could first be identified as probably electronic in nature on
first large-scale coverage of when 2 suspect
antennas and 1 probable antenna were identified. None of
these facilities was present on All 3
appeared during 1962. These facilities (Figure 10) are
interconnected by road/trail with each other and with the
Main Housing and Support Area. On the latest referenced
large-scale coverage , a third suspect
antenna (Figures 10 and 11) was observed to be well under
construction to the west of the 3 previously identified.
The northernmost of the 3 facilities consists of an
approximately probable antenna which appears
to be positioned on a circular track-like structure
in diameter, which in turn is situated on a long, narrow,
rectangular apron. Several small structures are observed
on photography of close to the southeast
corner of the apron, including 1 possible environmental
shelter in diameter) and 1 possible tank in
diameter). The probable antenna appeared to be present as
early as a 220-foot-
high tower had appeared 280 feet to the east.
several small structures/objects could be seen close
to the south end of the probable antenna. Vehicular move-
ment was noted at the site between
This probable antenna has been seen most
frequently oriented generally on a north/south axis with a
boresight azimuth of However, on at least 9
occasions it was oriented north-northeast/south-southwest
to northeast/southwest and on 1 occasion toward the
north-northwest/south-southeast. On all available coverage
during 1966 and 1967 it has been roughly on a north/south
axis. Recent activity at the tower consists of the appearance
on of a prepared
linear strip (of different lengths on the 2 missions) near the
tower, and of the construction of a small
structure near the tower.
The central suspect antenna is a generally semicircular
structure approximately 130 feet across its base, with a
height of 5 feet and a boresight azimuth of

degrees. No antenna can be identified on the large-scale

The possibility of an antenna positioned here previously

coverages available from

the pumphouse, and several very small adjacent structures

various sizes, a water standpipe, and a pumphouse. By

three small buildings had been dismantled and

The water standpipe,

FIGURE 11. PERSPECTIVE CONCEPT OF SUSPECT ANTENNA ARRAY UNDER CONSTRUCTION, R&D RADAR FACILITY 2, SSATC. - 14 -TOP SECRET
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1	<u></u>		25X 75X 125X 155X 75X 125^
	not identifiable on small-scale photography cannot be	mained. An increase was noticeable between	HOUSING AND SUPPORT AREA
ruled	d out. This suspect antenna could be first identified on	An apron with an unidentified piece of	
	although activity was observed at the	equipment appeared in this corner by and	FOR R&D RADAR FACILITY 2
site c	on photography of Large-scale coverage	remained through	This facility is approximately 1,500 feet south-southeast
of _	and subsequent photography revealed that a	Just west of the Probable Electronics Area is a suspect	of HEN ROOST Antenna South and currently consists of 32
	ow structure paralleling the outer edge of the main	antenna array under construction (Figures 10 and 11).	barracks/administration and storage buildings, a power
	cture was being removed. Materials adjacent to the	Grading was first observed at the site in This	transformer substation, an athletic field, and a motor pool
	h side vary in quantity as seen on current mission	suspect antenna consists of crossed over and under arrays.	(Figure 12). Since report of 1/ until
	ography. From one large	The lower array, approximately above the ground,	only minor construction activity was evident addition to 1
section		appears to consist of 5 horizontal linear elements, each	building and construction of 1 small building in the northern
	presented a dark appearance possibly covered	approximately 180 feet long and each supported by 7 equally	part of the area. Between
over	and remained thus through From	spaced support towers. Although the lower array would	two storage-type buildings, each and 3 small
	the covering material of	appear to serve as a reflector, the possibility of their being	structures were constructed in the southwest sector of the
	her portion along the northwest corner	active elements cannot be ruled out. The higher array is	facility. The period from
	been removed. Whether the facility is being dismantled	composed of what appears to be 23 shallow V-shaped ele-	revealed somewhat more extensive construction concen-
	rehabilitated cannot be determined. In some respects	ments (approximately from tip to tip) mounted in	trated largely in the south and consisting of building con- struction and new trenching. Building construction included:
	structure resembles the light-toned, parallel, triangular abutting the BILLBOARD at R&D Radar Facility 1.	upright positions on individual supports which are approxi-	a possible rectifier building along the south
	The southern suspect antenna consists of 2 parallel	mately from the ground. These elements are	side of the transformer substation, 2 administrative/techni-
	ctures; the principal section to the east, 345 feet long	arranged perpendicularly to the elements in the lower array.  One element is currently under assembly. The 2 end por-	cal buildings along the southern facility boundary, 2 build-
	rall), and 5 feet high , and the	tions of each leg of the V-shaped element appear to be	ings along the western boundary under construction (
•	and 5 feet high , and the ondary one to the west,	thinner than the central portion, which is of bulky configura-	and another of undetermined size), and 4 small sheds.
	a separation distance Boresight azimuth is	tion. The tips of each leg appear to be approximately	The 35-kilovolt (kv) transformer substation situated
	oximately . A shorter structure (105 feet	feet from the ground. The elements of the high array occupy	along the north boundary of the Housing and Support Area,
	by vide by approximately ) is situated	an area approximately 180 feet in length, thus resulting in	previously reported as probable, can now be confirmed. It
_	to the east. This suspect antenna could be seen on	an area approximately 180 feet square occupied by the low	consists of a relatively small secured area and a control/
•	ll-scale photography of but did not	and high array. A narrow, light-toned, horizontal structure,	low-voltage switching building. Within the secured area are
appea	ear to be present on Large-scale photogra-	elevated aboutfrom the ground, generally parallels	two 3-phase transformers and a small 35-kv switching yard
phy	of and subsequent coverage revealed the	the linear elements comprising the lower array and is	having 3 bays and 1 bus. The transformers have an estimated
	nantling of that structure closest to the western fenceline,	situated on each side of the suspect antenna. Both structures	capacity up to 1.8 megavolts-amperes (mva) each.
	the construction of another long structure closer to	are long but appear to be slightly offset and not	One 3-phase, single-circuit, 35-kv powerline entering
the	primary one. In	truly parallel to each other. The approximate separation	the substation parallels the shoreline and originates at the
	these 2 structures appeared as separate and	distance of the 2 western termini is, of the 2	Main Substation west of the Main Housing Complex for
appaı	rently unconnected. Nonstereo photography of	eastern termini There are indications of a possible	SSATC. This powerline is strung on wooden supports. A
Щ	gave the impression of a covering extending from one	cable arrangement parallel to and about outside of	second 3-phase, single-circuit, 35-kv powerline entering the
	ne other,	each structure. Two probable vans	substation is tied into the substation at Tracking Facility 2.
	Activity was observed in the southeast corner of the	are at the center of the suspect array and a truck-mounted	It also has wooden supports. Wooden supports for a third
	bable Electronics Area in when numerous	crane and construction materials are present along its	single-circuit powerline coming from the main SSATC sub-
	es/construction materials could be seen. Crates were	perimeter. Just to the southeast of the suspect antenna is	station are visible. This powerline avoids the shoreline
opsei	erved here in the same approximate number until	a possible element assembly/test area containing 1 element	electronics installations. However, there is no photographic evidence of the installation of insulator garlands nor of the
	when some movement was noticeable.  only a small number of crates re-	assembled.	evidence of the distantation of distrator Sarrangs nor of the

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NEW SUPPORT AREA	were complete or nearly complete externally on  The facility is secured and is served by a wat
ol/ A new support area (Figure 13), under construction	pumphouse and waterline under construction.  No evidence of the site could be seen in the snow on
ect 3,000 feet northeast of the HEN ROOST Antenna North and	First indication of construction was not with considerable progress between
the composed of 23 buildings. The majority of these buildings	and
REFERENCES	
,	A new support area (Figure 13), under construction 3,000 feet northeast of the HEN ROOST Antenna North and presumably a component of R&D Radar Facility 2, is composed of 23 buildings. The majority of these buildings

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